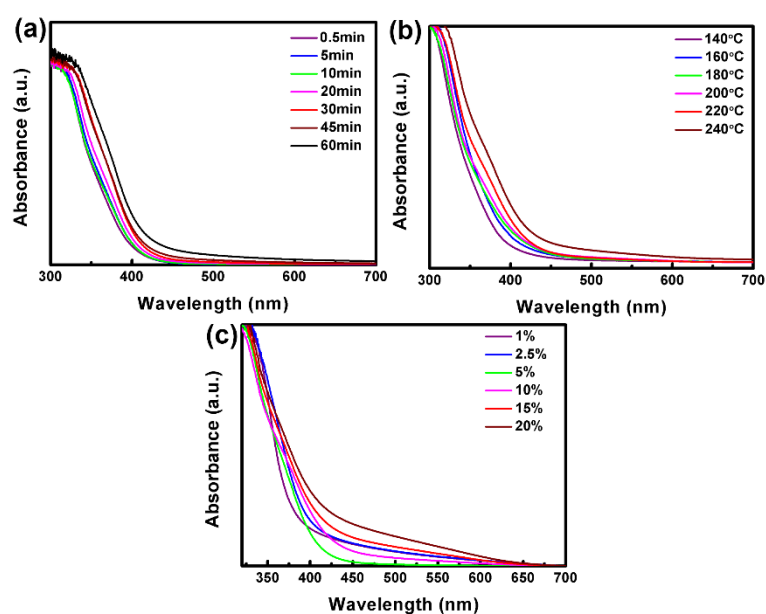


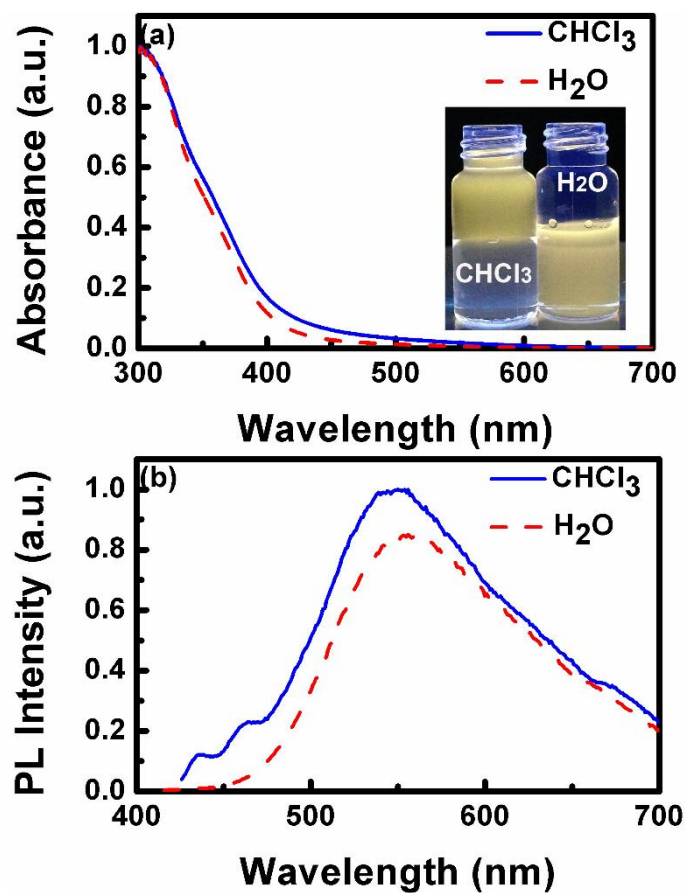
## Supporting Information

### Facile Synthesis of Cadmium-Free Zn-In-S:Ag/ZnS Nanocrystals for Bio-Imaging

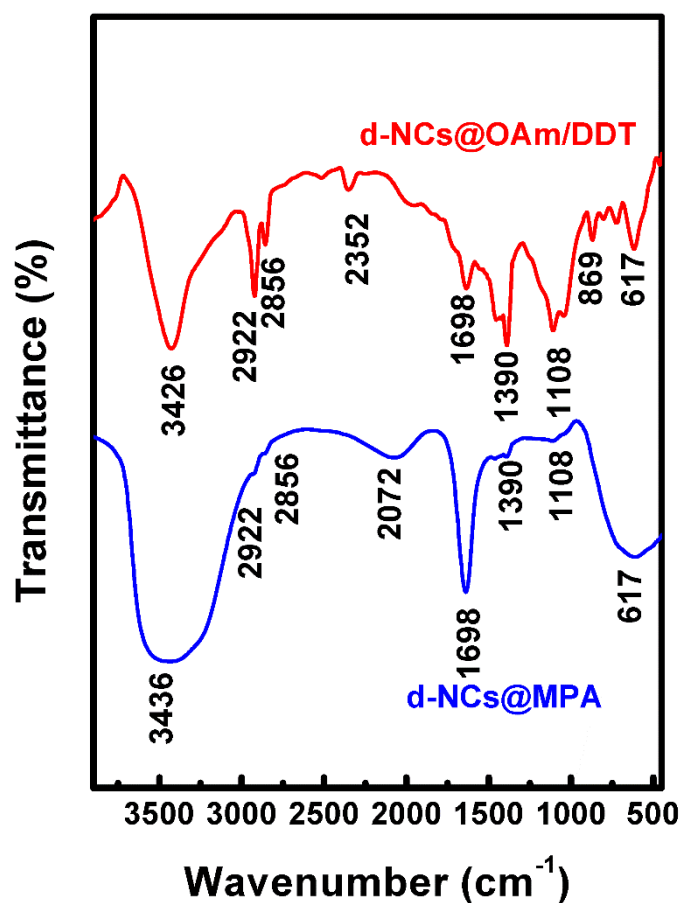
*Tong-Tong Xuan, Jia-Qing Liu, Cai-Yan Yu, Rong-Jun Xie, and Hui-Li Li \**



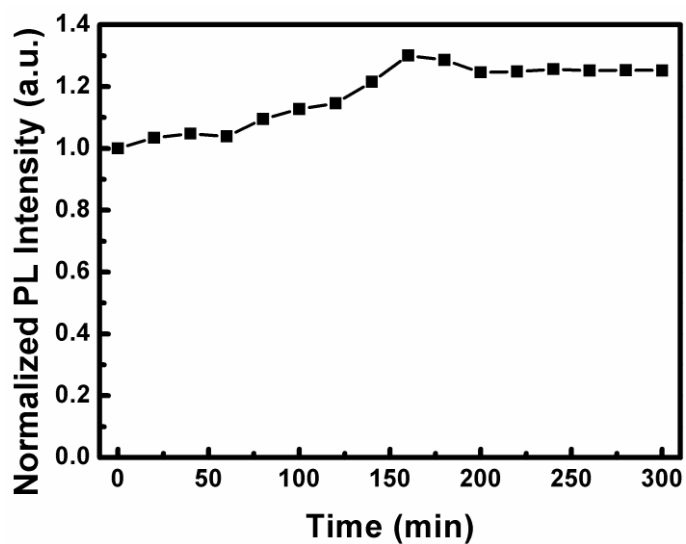
**Figure. S1** The UV/vis absorption spectra of Zn-In-S:Ag d-NCs synthesized at 180 °C for different reaction time (a), at different reaction temperature for 20 min (b), or at 180 °C for 20 min with different Ag doping concentrations.



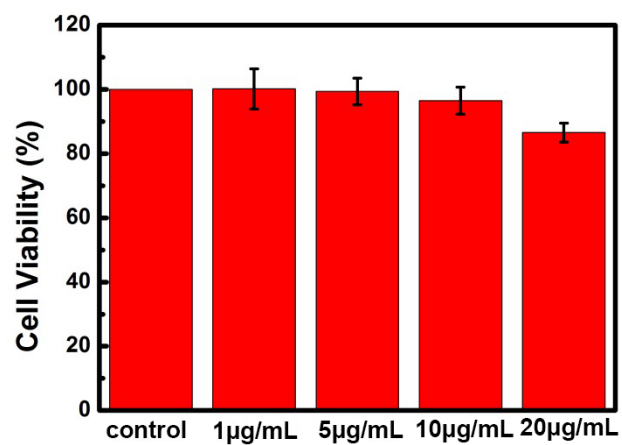
**Figure. S2** The UV/vis absorption (a) and PL spectra (b) of Zn-In-S:Ag/ZnS d-NCs before (CHCl<sub>3</sub> solvent) and after (aqueous solution) phase transfer by MPA. The inset gives photographs of d-NCs in CHCl<sub>3</sub> and aqueous solution, respectively, under 365 nm UV light.



**Figure. S3** FTIR spectra of Zn-In-S:Ag/ZnS d-NCs before and after ligand exchange.



**Figure. S4** Photostability of water-soluble Zn-In-S:Ag/ZnS d-NCs under 365 nm UV illumination.



**Figure. S5** The viability of KB cells in vitro measured by CCK-8 assay. The KB cells were incubated for 24 h with different concentration of Zn-In-S:Ag/ZnS d-NCs.